Dell Precision M70 Mobile Workstation

The Dell™ Precision™ M70 Workstation maximizes productivity through exceptional workstation performance and notebook mobility.

▶ Design, analyze and create through outstanding compute and graphics performance

▶ Enjoy convenient, secure mobility and the freedom of wireless connectivity

▶ Optimized, assured performance through ISV certifications and tuning

▶ Expert workstation service and support, should you need it

For engineers, designers, architects, digital artists and publishers that want to go mobile

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Power through complex, compute intensive applications exceptionally fast

The outstanding compute performance of Intel® Pentium® M processors with 2MB L2 Cache helps run integer and floating point computation intensive applications exceptionally fast. The 533MHz front side bus and the DDR2 533MHz dual channel memory enable fast data transfer between the CPU and memory, and help ensure that the power of the processor is used optimally. The high bandwidth of the dual channel memory interface minimizes bottlenecks while running memory intensive applications, and helps ensure that engineers, analysts and digital content creators can go from desktop workstations to mobile workstations without missing a beat, or a deadline.

Create and manipulate realistic 3D models, complex assemblies, dazzling special effects and animation

The exceptional graphics performance of the NVIDIA® Quadro™ FX Go1400 OpenGL graphics engine enables CAD designers to create large, high quality models fast, and easily create and manipulate complex assemblies. Digital content creators and animators can benefit from the support of advanced features such as Vertex and Pixel Shader 3.0, Rotated Grid Full Scene Antialiasing, and 12-bit subpixel precision, to create extremely sophisticated and pleasing special effects and graphics. The 256MB graphics memory enables the fast application and manipulation of rich textures, to make graphics seem more lifelike and impressive. The PCI Express graphics interface increases the theoretical bandwidth up to 8X that of the AGP4X interface, and helps make the Dell Precision M70 mobile workstation a viable platform for use as a primary workstation.

Clearly visualize large assemblies, dazzling graphics, high speed video and large tool palettes

A range of 15.4" displays with up to WUXGA (1920 X 1200) resolution, provide maximum real estate and display designs crisply and with minimal scrolling. WSXGA+ and WXGA resolutions are also available. The UltraSharp™ WUXGA and WSXGA+ panels with wide horizontal and vertical viewing angles enable effective demonstrations and easy viewing. Wide aspect ratio (16:10) displays video content well, easily accommodates application interfaces with tool palettes, and permits the display of multiple text/web pages conveniently.

Liberate engineers, architects, artists and power users to go places, with convenient, secure mobility

The M70 offers ultra long battery life through high capacity 9-cell 80WHr. batteries, for extended work away from the office. The system also supports an optional, secondary 6-cell battery to provide additional battery life. Excellent power management and easy to use utilities enable users to choose the settings that best meet their needs - performance, battery life, or the optimal combination of the two. A range of security solutions help ensure data as well as the system is protected and secure. The options include slots for cable locks, integrated SmartCard reader, BIOS and HDD passwords, and optional TPM 1.1 support. Dell Wireless and Intel PRO/Wireless miniPCI 802.11 solutions provide excellent connectivity without wires, and also support widely used wireless standards including CCX and LEAP. A docking station and an Advanced Port Replicator are also available.

Optimized, assured performance on workstation applications

Simply design and create, without having to worry about whether the system can run the application - a comprehensive suite of certifications ensures that workstation applications run, and run very well. The M70 will be certified on the workstation industry's most complex CAD, CAE, DCC, GIS and other workstation applications at or shortly after launch. In the unlikely event of any issues, the certification team engages with the application (and/or hardware) vendors to resolve the issue speedily. The M70 is optimized for workstation applications, with technologies and components chosen with a focus on running workstation applications well, and tuned to optimize performance and reliability.

Expert assistance just a phone call away, should you need it

Workstation telephone support for speedy resolution of problems, should they ever occur. Easy and efficient escalation to workstation application certification resources, should the issue require interfacing with the application vendor.

3 Years International Service and Support[3]

The Dell Precision M70 is designed to exceed your expectations and is backed by Dell's exceptional service and support with 3 years Next Business Day On-site[3] service and International programs across many countries.

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SYSTEM	**Processors**	Intel® Pentium™ M processors, 2MB L2 Cache, 533MHz FSB, up to 2.13GHz
	Operating SystemVersions Available	Dell recommends Microsoft® Windows XP® Professional for Business: Microsoft Windows XP Professional; Microsoft Windows® 2000 Professional
	Cache	2MB L2 cache
	Chipset	Intel 915PM Chipset
	Memory	Double Date Rate2 (DDR2) SDRAM at 533MHz; up to 2GB max capacity
	Displays	15.4" UltraSharp™ WUXGA (1920 x 1200), UltraSharp WSXGA+ (1680 x 1050) or WXGA (1280 x 800) TFT LCDs
	Graphics	NVIDIA® Quadro™ FX Go1400, 256MB memory; PCI Express, OpenGL hardware acceleration
	Hard Disk Drives*	Up to 60GB[4] / 7,200 RPM or 80GB[4] / 5,400 RPM, EIDE/ATA-100; *Optional 2nd HDD Module for media bay or D/Dock Expansion Station media bay
	Modem	56K[1] v.90 internal modem
	Wired Connectivity	10/100/1000[2] Ethernet, DMI 2.0 and Wired for Management compliant
	Wireless Connectivity	Choice of: Intel PRO/Wireless 2200 WLAN (802.11b/g, 54Mbps[6]) miniPCI Card; Intel PRO/Wireless 2915 WLAN (802.11a/b/g, 54Mbps[6]) miniPCI Card; Dell Wireless 1350 WLAN (802.11b/g, 54Mbps[6]) miniPCI Card; Dell Wireless 1450 Dual Band WLAN (802.11a/b/g, 54Mbps[6]) miniPCI Card; Dell TrueMobile™ 5100 GPRS PC Card (optional) (ATT or T_Mobile Service)
	PC Card Slots	One Type I or Type II
	Audio	Audio Type - AC97 (Soft Audio); Integrated Stereo Speakers
	Batteries	Primary Battery: Smart Lithium-Ion (9-cell/80 WHr) with external LED battery gauge and ExpressCharge™ capability; Secondary Module Battery: Smart Lithium-Ion Battery (6-cell) with LED battery gauge and ExpressCharge capability
	Keyboard	87-Key US; 88-Key Europe; 91-Key Japan
	Pointing Devices	Touch Pad - PS/2 Compatible; Track Stick - PS/2 Compatible
	Power supply	90 Watt AC adapter with cord wrapping
	System Dimensions/Weight*	361.2mm (w) x 260.4mm (d) x 42.4mm (h); 14.2" (w) x 10.3" (d) x 1.67" (h); *Starting weight with travel module and 9-cell battery: 3.035kg/6.69lbs; Starting weight with CD-ROM module and 9-cell battery: 3.23kg/7.12lbs; *Weights vary depending on configurations and manufacturing variability.
I/O PORTS	**Serial port**	9-pin connector; 16550-compatible, 16-byte buffer
	Video	15-hole connector
	Audio	One headphone and one microphone
	Infra Red	1 Infrared sensor compatible with IrDA Standard 1.1 (Fast IR) and IrDA Standard 1.0 (Slow IR)
	Universal Serial Bus	Four USB 2.0 - compliant connectors
	Docking Connector	280-pin for the D/Dock Family Expansion Station & D/Port Family Advanced Port Replicator
	S-Video	7-pin mini DIN (SP/DIF adapter included with the computer)
	Modem	RJ-11 port
	Ethernet	RJ-45 port
MODULE BAY	**Modular bay options**	CD ROM Drive; Floppy Disk Drive Module: 3.5-inch, 1.44MB; CD-RW/DVD-ROM Combo Drive (8X/24X/10X/24X); 40GB Second Hard Drive; DVD+/-RW[5] drive; Second 6-cell Smart Lithium-Ion Battery
DOCKING OPTIONS	**D/Dock Expansion Station**	Ports Offered: Power input, RJ-11, RJ-45, DVI, VGA, S-Video, Parallel, Serial, 2-PS/2, SPDIF, 4 USB 2.0, external D/Bay port, headphone, D/Module bay and 1 PCI card expansion slot
	D/Port AdvancedPort Replicator	Ports Offered: Power input, RJ-11, RJ-45, DVI, VGA, S-Video, Parallel, Serial, 2-PS/2, SPDIF, 4 USB 2.0, external D/Bay port, headphone
MANAGEABILITY	**Manageability Software**	Dell OpenManage™ Client Support
SECURITY	**Integrated Smart Card Reader**	Provides strong industry standard two factor user authentication (when used with a smart card and applicable software)
	Mobile User Security	Primary system password, Administrator password, Hard Disk Drive password
	Lock Slots	Cable lock slots to secure system, HDD and media modules
	Optional TPM Support	Optional support for Trusted Platform Module (TPM)
WIRELESS COMMUNICATIONS OPTIONS	**Dell TrueMobile 350 Bluetooth Module**	Bluetooth 1.1 with BQB and BQTF Certification
	Dell TrueMobile 1170Access Point	SNMP and Remote Management features; IEEE 802.11b industry standard; Wi-Fi® compatible
	Dell TrueMobile 2350 Wireless Broadband Router	4 Fast Ethernet ports, DHCP server capability and NAT firewall built-in. Interoperable with IEEE 802.11b compliant systems, WECA Wi-Fi standard compliant
MOBILE ACCESSORIES	**Mobile Accessories**	USB Memory Keys; Deluxe Leather Carrying Case; Deluxe Nylon Carrying Case; Second 90 Watt AC adapter; Country Specific Power Cords; D/Bay External Media Bay; D/View Notebook Stand (can only be used with D/Port Port Replicator); D/Monitor Stand (can be used with both D/Port and D/Dock); USB Keyboard and Mice; External CRT and Flat Panel Monitors; External Speakers; S-Video to Composite Out Cable; Additional SP/DIF adapter
SERVICE & SUPPORT	**Service**	3 Years Next Business Day On-site[3] Service

[1] Download speeds are limited to 53Kbps. Upload speeds are less (about 30Kbps). Speeds can vary by line condition and modem manufacturer. Analog phone line and service required. [2] This term does not connote actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required [3] Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only. [4] For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less. [5] Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility. [6] For comparative purposes only. Actual speed varies with environment, equipment and other factors, and will be less. Dell's Terms and Conditions of Sales and Service apply and are available upon request. Dell is not responsible for errors in typography or photography. Dell, the Dell logo, UltraSharp, ExpressCharge, TrueMobile and Dell Precision are either registered trademarks or trademarks of Dell Inc. Intel, Intel inside logo and Pentium are registered trademarks of Intel Corporation. Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names of their products. Dell disclaims proprietary interest in the marks and names of others. © Copyright 2005 Dell Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of Dell Inc. is strictly forbidden. For more information contact Dell. February 2005.

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